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. F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
1	01/21/2004	Nicholas M. Valiante	PP20203.003	5927	
7590	11/07/2006		EXAM	INER	
NOVARTIS VACCINES AND DIAGNOSTICS INC.				CHONG, YONG SOO	
	LECTUAL PROPE	RTY R338	ARTUNIT	PAPER NUMBER	
P.O. BOX 8097 Emeryville, CA 94662-8097			1617	TALER NOMBER	
	7590 TS VACC TE INTEL 8097	01/21/2004 7590 11/07/2006 TIS VACCINES AND DIAGNATE INTELLECTUAL PROPER 8097	01/21/2004 Nicholas M. Valiante 7590 11/07/2006 TIS VACCINES AND DIAGNOSTICS INC. ATE INTELLECTUAL PROPERTY R338 8097	01/21/2004 Nicholas M. Valiante PP20203.003 7590 11/07/2006 EXAM TIS VACCINES AND DIAGNOSTICS INC. ATE INTELLECTUAL PROPERTY R338 8097 ART UNIT	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/762,873	VALIANTE, NICHOLAS M.
Office Action Summary	Examiner	Art Unit
	Yong S. Chong	1617
The MAILING DATE of this communication app	ears on the cover sheet with the c	orrespondence address
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tirr vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	Lely filed the mailing date of this communication. C (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed on 25 Second 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowant closed in accordance with the practice under Example 25.	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1-31 is/are pending in the application. 4a) Of the above claim(s) 1-11,18 and 20-31 is/ 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 12-17, 19 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	are withdrawn from consideration	1.
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction of the output of the second sec	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate

Application/Control Number: 10/762,873

Art Unit: 1617

DETAILED ACTION

Status of the Application

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/25/2006 has been entered.

Claim(s) 1-31 are pending. Claim(s) 1-11, 18, 20-31 have been withdrawn.

Claim(s) 12-17, 19 are examined herein.

Applicant's arguments have been fully considered but found not persuasive. The rejection(s) of the last Office Action are maintained for reasons of record and repeated below for Applicant's convenience.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in Graham vs John Deere Co., 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

Art Unit: 1617

1. Determining the scope and contents of the prior art.

- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 12-17, 19 are rejected under 35 U.S.C. 103(a) as being obvious over Baker et al. (US Patent 5,441,955).

The instant claims are directed to a composition comprising a tryptanthrin compound (No. 1001) and an antigen.

Baker et al. teach the tryptanthrin compound of No. 1001 in the applicant's specification (col. 20, lines 22-33) as part of an antimicrobial composition (abstract). Furthermore, this tryptanthrin compound can be administered with an adjuvant (col. 12, lines 37-42). What's more, Baker et al. teach that tryptanthrin can be administered in combination with one or more other agents used in the treatment of pathogenic mycobacterial infections. Representative agents used for the treatment of mycobacterial tuberculosis include, for example, isoniazid, rifampin, pyrazinamide, ethambutol, rifabutin, streptomycin, and ciproflaxin (col. 13, lines 35-43). Examiner would like to point out that mycobacterial tuberculosis is a common cause of bacterial meningitis (meningococcus infection). Moreover, Bacillus of Calmette and Guérin (BCG) is a vaccine against tuberculosis caused by mycobacterial tuberculosis.

Baker et al., however fails to disclose a specific combination of the tryptanthrin compound (No. 1001) and an adjuvant.

Art Unit: 1617

It would have been prima facie obvious to a person of ordinary skill in the art, at the time the claimed invention was made, to combine the tryptanthrin compound (No. 1001) with an adjuvant.

A person of ordinary skill in the art would have been motivated to make this combination because of the increased antigenic response of the tryptanthrin compound resulting from the adjuvant, which is defined as the agents that are used for the treatment of mycobacterial tuberculosis.

Response to Arguments

Applicant argues that there is no motivation in the cited reference to combine BCG with tryptanthrin. Specifically, Applicant argues that Baker neither discloses BCG as an adjuvant nor an antimicrobial agent that would be combinable with tryptanthrin.

Examiner respectfully argues that there is ample motivation to combine BCG with tryptanthrin as disclosed in Baker et al. Tryptanthrin can be administered with an adjuvant, such as an agent used in the treatment of pathogenic mycobacterial infections. Representative agents used for the treatment of mycobacterial tuberculosis include, for example, isoniazid, rifampin, pyrazinamide, ethambutol, rifabutin, streptomycin, and ciproflaxin (col. 13, lines 35-43). Examiner would like to point out that mycobacterial tuberculosis is a common cause of bacterial meningitis (meningococcus infection). Moreover, Bacillus of Calmette and Guérin (BCG) is a vaccine against tuberculosis caused by mycobacterial tuberculosis. Whether this is cited in the

background or not is irrelevant, since BCG is clearly disclosed to treat mycobacterial tuberculosis.

Applicant argues that BCG is not an adjuvant.

For the sake of argument, even if BCG does not qualify as an adjuvant, it still would be obvious to one of ordinary skill in the art to combine BCG with tryptanthrin because they are used for the same purpose.

"It is *prima facie* obvious to combine two compositions each of which is taught by the prior art to be useful for the same purpose, in order to form a third composition to be used for the very same purpose.... The idea of combining them flows logically from their having been individually taught in the prior art." *In re Kerkhoven*, 626 F.2d 846, 850, 205 USPQ 1069, 1072 (CCPA 1980).

In response to the limitation imposed on claim 15 by amendment, the enhancement of the immune response to the antigen by the tryptanthrin compound is inherent since a compound and its properties are inseparable.

"Products of identical chemical composition can not have mutual exclusive properties." Any properties exhibited by or benefits from are not given any patentable weight over the prior art provided the composition is inherent. A chemical composition and its properties are inseparable. Therefore, if the prior art teaches the identical chemical structure, the disclosed properties are necessarily present. *In re Spada*, 911 F.2d 705, 709, 15 USPQ 1655, 1658 (Fed. Cir. 1990). See MPEP 2112.01. The burden is shifted to the applicant to show that the prior art product does not inherently possess the same properties as the instantly claimed product.

Application/Control Number: 10/762,873

Art Unit: 1617

Applicant also argues that there is no motivation to combine BCG with tryptanthrin because BCG is a vaccine made up of a live strain of Mycobacterium, which require multiplication and growth in the recipient. This is in direct contradiction to tryptanthrin compounds, which inhibit the growth of pathogenic mycobacteria, therefore diminishing or eliminating BCG's ability to produce immunity against Mycobacteria infections.

This is not persuasive because it is well known to one of ordinary skill in the art that BCG is a non-specific immunostimulatory agent. This will give a general boost of the immune system in the host. BCG is well known to be administered with a variety of therapeutic agents for a variety of disorders and diseases. Further, there is no certainty that tryptanthrin will inhibit the actual specie, Mycobacterium tuberculosis, even though the general teaching that tryptanthrin inhibits the growth of pathogenic mycobacteria.

Examiner also notes that Applicant is essentially arguing against the instant invention. If Applicant continues with this line of thought, then the Examiner respectfully requests more clarification as to how the instant invention pertaining to a composition comprising tryptanthrin and BCG is enabled.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

All claims are drawn to the same invention claimed in the application prior to the entry of the submission under 37 CFR 1.114 and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the application prior to entry under 37 CFR 1.114. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action after the filing of a request for continued examination and the submission under 37 CFR 1.114. See MPEP § 706.07(b).

Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Yong S. Chong whose telephone number is (571)-272-8513. The examiner can normally be reached on M-F, 9-6.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, SREENI PADMANABHAN can be reached on (571)-272-0629. The fax phone number for the organization where this application or proceeding is assigned is (571)-273-8300.

Application/Control Number: 10/762,873

Art Unit: 1617

Page 8

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YSC

SHENGJUN WANG BIMARY EXAMINER